

APPLICANT FACSIMILE OF FORM PTO-1449  
REV 7-80

 U.S. DEPARTMENT OF  
COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO

SERIAL NO.

BCI-024CP

09/885297

APPLICANT

Ingram, Lonnie O. et al.

FILING DATE

June 19, 2001

GROUP

1652

 LIST OF PUBLICATIONS CITED BY APPLICANT  
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## U.S. PATENT DOCUMENTS

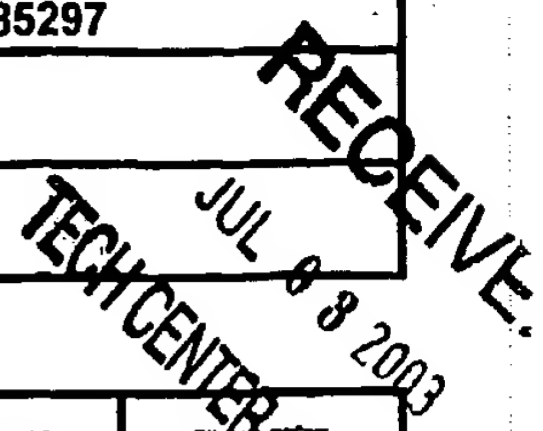
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
mm	A1	3,990,944	11/76	Gauss et al.	195	33	
	A2	5,000,000	03/91	Ingram et al.	435	161	
	A3	5,028,539	07/91	Ingram et al.	435	161	
	A4	5,162,516	11/92	Ingram et al.	536	27	
	A5	5,424,202	06/95	Ingram et al.	435	161	
	A6	5,482,846	01/96	Ingram et al.	435	161	
	A7	5,487,989	01/96	Fowler et al.	435	165	
	A8	5,554,520	09/96	Fowler et al.	435	165	
mm	A9	5,821,093	10/98	Ingram et al.	435	161	

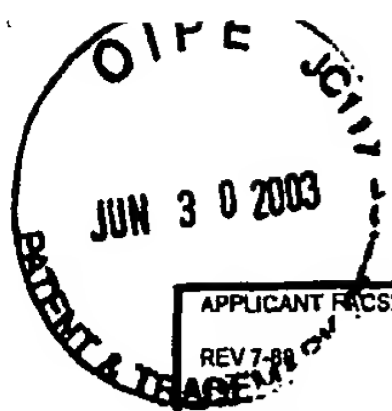
## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
mm	A10	WO 98/45425 A1	10/98	WO	—	—		
mm	A11	WO 00/71729 A2,A3	11/00	WO	—	—		

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

mm	A12	Asghari et al. (1996) Ethanol production from hemicellulose hydrolysates of agricultural residues using genetically engineered <i>Escherichia coli</i> strain KO11. <i>J. Ind. Microbiol.</i> 16:42-47
	A13	Barbosa et al. (1992) Expression of the <i>Zymomonas mobilis</i> alcohol dehydrogenase II ( <i>adhB</i> ) and pyruvate decarboxylase ( <i>pdc</i> ) genes in <i>Bacillus</i> . <i>Current Microbiol.</i> 28:279-282
	A14	Barras et al. (1994) Extracellular enzymes and pathogenesis of soft-rot <i>Erwinia</i> . <i>Annu. Rev. Phytopathol.</i> 32:201-234
	A15	Beall et al. (1991) Parametric studies of ethanol production from xylose and other sugars by recombinant <i>Escherichia coli</i> . <i>Biotechnol. Bioeng.</i> 38:296-303
	A16	Beall et al. (1992) Conversion of hydrolysates of corn cobs and hulls into ethanol by recombinant <i>Escherichia coli</i> B containing integrated genes for ethanol production. <i>Biotechnol. Lett.</i> 14:857-862
	A17	Beall, et al. (1993) Genetic engineering of soft-rot bacteria for ethanol production from lignocellulose. <i>J. Indust. Microbiol.</i> 11:151-155
	A18	Boyer, M.-H. et al. (1987) Isolation of the gene encoding the major endoglucanase of <i>erwinia chrysanthemi</i> homology between cel genes of two strains of <i>erwinia-chrysanthemi</i> . <i>FEMS Microbiol. Lett.</i> 41(3):351-6
mm	A19	Boyer, M.-H. et al. (1987) Characterization of a new endoglucanase from <i>Erwinia chrysanthemi</i> . <i>Eur. J. Biochem.</i> 162(2):311-6
Examiner		Date Considered
mm		5/18/04
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## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>mm</i>	B1	Brooks et al. (1995) Conversion of mixed waste office paper to ethanol by genetically engineered <i>Klebsiella oxytoca</i> strain P2. <i>Biotechnol. Progress.</i> 11:619-625
	B2	Burchhardt et al. (1992) Conversion of xylan to ethanol by ethanologenic strains of <i>Escherichia coli</i> and <i>Klebsiella oxytoca</i> . <i>Appl. Environ. Microbiol.</i> 58:1128-1133
	B3	Cho, K.M. et al. (1999) Novel SSF process for ethanol production from microcrystalline cellulose using the $\delta$ -integrated recombinant yeast, <i>Saccharomyces cerevisiae</i> L2612 $\delta$ GC. <i>J. Microbiol. Biotechnol.</i> 9:340-345
	B4	Conway, T. et al. (1987) Cloning and sequencing of the alcohol dehydrogenase II gene from <i>Zymomonas mobilis</i> . <i>J. Bacteriol.</i> 169(6):2591-7
	B5	Conway et al. (1987) Gene expression in <i>Zymomonas mobilis</i> : promoter structure and identification of membrane anchor sequences forming functional lacZ' fusion proteins. <i>J. Bacteriol.</i> 169:2327-2335
	B6	Doran et al. (1993) Fermentation of crystalline cellulose to ethanol by <i>Klebsiella oxytoca</i> containing chromosomally integrated <i>Zymomonas mobilis</i> genes. <i>Biotechnol. Progress.</i> 9:533-538
	B7	Doran et al. (1994) Saccharification and fermentation of sugar cane bagasse by <i>Klebsiella oxytoca</i> P2 containing chromosomally integrated genes encoding the <i>Zymomonas mobilis</i> ethanol pathway. <i>Biotechnol. Bioeng.</i> 44:240-247
	B8	Fierobe, H.-P. et al. (1993) Purification and characterization of endoglucanase C from <i>Clostridium cellulolyticum</i> . Catalytic comparison with endoglucanase A. <i>Eur. J. Biochem.</i> 217(2):557-65
	B9	Figurski et al. (1979) Replication of an origin-containing derivative of plasmid RK2 dependent on a plasmid function provided in trans. <i>Proc. Natl. Acad. Sci. USA.</i> 76: 1648-1652
	B10	Grohmann et al. (1994) Fermentation of galacturonic acid and other sugars in orange peel hydrolysates by the ethanologenic strain of <i>Escherichia coli</i> . <i>Biotechnol. Lett.</i> 16:281-286
	B11	Guimaraes et al. (1992) Ethanol production from starch by recombinant <i>Escherichia coli</i> containing integrated genes for ethanol production and plasmid genes for saccharification. <i>Biotechnol. Lett.</i> 14:415-420
	B12	Guimaraes et al. (1992) Fermentation of sweet whey by ethanologenic <i>Escherichia coli</i> . <i>Biotechnol. Bioeng.</i> 40:41-45
	B13	Guisseppi, A. et al. (1991) Sequence analysis of the cellulase-encoding celY gene of <i>Erwinia chrysanthemi</i> : a possible case of interspecies gene transfer. <i>Gene.</i> 106(1):109-14
	B14	Hahn-Hägerdal et al. (1994) An interlaboratory comparison of the performance of ethanol-producing micro-organisms in a xylose-rich acid hydrolysate. <i>Appl. Microbiol. Biotechnol.</i> 41:62-72
	B15	He et al. (1991) Cloned <i>Erwinia chrysanthemi</i> out genes enable <i>Escherichia coli</i> to selectively secrete a diverse family of heterologous proteins to its milieu. <i>Proc. Natl. Acad. Sci. U.S.A.</i> 88(3):1079-83
<i>mm</i>	B16	Hueck et al. (1998) Type III protein secretion systems in bacterial pathogens of animals and plants. <i>Microbiol. Mol. Biol. Rev.</i> 62(2):379-433

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Sheet 3 of 5

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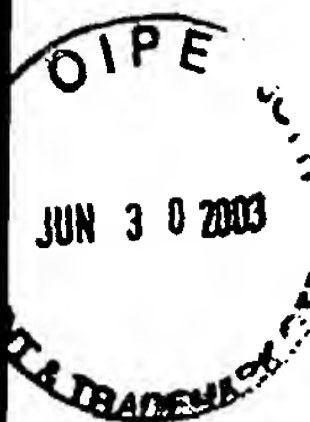
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## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

C1	Ingram et al. (1987) Genetic engineering of ethanol production in <i>Escherichia coli</i> . <i>Appl. Environ. Microbiol.</i> 53(10):2420-5
C2	Ingram et al. (1988) Expression of different levels of ethanologenic enzymes from <i>Zymomonas mobilis</i> in recombinant strains of <i>Escherichia coli</i> . <i>Appl. Environ. Microbiol.</i> 54:397-404
C3	Ingram, et al. (1999) Enteric bacterial catalysts for fuel ethanol production. <i>Biotechnol. Prog.</i> 15:855-866
C4	Kuhnert, P. et al. (1997) Detection system for <i>Escherichia coli</i> -specific virulence genes: absence of virulence determinants in B and C strains. <i>Appl. Environ. Microbiol.</i> 63(2):703-9
C5	Lai et al. (1996) Cloning of cellobiose phosphoenolpyruvate-dependent phosphotransferase genes: Functional expression in recombinant <i>Escherichia coli</i> and identification of a putative binding region for disaccharides. <i>Appl. Environ. Microbiol.</i> 63:355-363
C6	Lindeberg et al. (1992) Analysis of eight out genes in a cluster required for pectic enzyme secretion by <i>Erwinia chrysanthemi</i> : sequence comparison with secretion genes from other gram-negative bacteria. <i>J. Bacteriol.</i> 174(22):7385-97
C7	Lindeberg et al. (1996) Complementation of deletion mutations in a cloned functional cluster of <i>Erwinia chrysanthemi</i> out genes with <i>Erwinia carotovora</i> out homologues reveals OutC and OutD as candidate gatekeepers of species-specific secretion of proteins via the type II pathway. <i>Mol. Microbiol.</i> 20(1):175-90
C8	Lynd et al. (1991) Fuel ethanol from cellulosic biomass. <i>Science</i> 251:1318-1323
C9	Martinez-Morales, F. et al. (1999) Chromosomal integration of heterologous DNA in <i>Escherichia coli</i> with precise removal of markers and replicons used during construction. <i>J. Bacteriol.</i> 181(22):7143-8
C10	Moniruzzaman et al. (1996) Ethanol production from afex pretreated corn fiber by recombinant bacteria. <i>Biotechnol. Lett.</i> 18:985-990
C11	Moniruzzaman, M. et al. (1997) Extracellular melibiose and fructose are intermediates in raffinose catabolism during fermentation to ethanol by engineered enteric bacteria. <i>J. Bacteriol.</i> 179(6):1880-6
C12	Moniruzzaman et al. (1998) Ethanol production from dilute acid hydrolysate of rice hulls using genetically engineered <i>Escherichia coli</i> . <i>Biotechnol. Lett.</i> 20:943-947
C13	Murata et al. (1990) Characterization of transposon insertion out- mutants of <i>Erwinia carotovora</i> subsp. <i>carotovora</i> defective in enzyme export and of a DNA segment that complements out mutations in <i>E. carotovora</i> subsp. <i>carotovora</i> , <i>E. carotovora</i> subsp. <i>atroseptica</i> , and <i>Erwinia chrysanthemi</i> . <i>J. Bacteriol.</i> 172:2970-2978
C14	Ohta, K. et al. (1991) Genetic improvement of <i>Escherichia coli</i> for ethanol production: chromosomal integration of <i>Zymomonas mobilis</i> genes encoding pyruvate decarboxylase and alcohol dehydrogenase II. <i>Appl. Environ. Microbiol.</i> 57(4):893-900
C15	Okamoto et al. (1994) Cloning of the <i>Acetobacter xylinum</i> cellulase gene and its expression in <i>Escherichia coli</i> and <i>Zymomonas mobilis</i> . <i>Appl. Microbiol. Biotechnol.</i> 42(4):563-8
C16	Osman, et al. (1985) Mechanism of ethanol inhibition of fermentation in <i>Zymomonas mobilis</i> CP4. <i>J. Bact.</i> 164:173-180
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## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>mm</i>	D1	Nidetzky, et al. (1995) Synergistic interaction of cellulases from <i>Trichoderma reesei</i> during cellulose degradation p.90-112
	D2	Pósfai, G. et al. (1997) Versatile insertion plasmids for targeted genome manipulations in bacteria: isolation, deletion, and rescue of the pathogenicity island LEE of the <i>Escherichia coli</i> O157:H7 genome. <i>J. Bacteriol.</i> 179(13):4426-8
	D3	Poulsen, O.M. et al. (1992) Degradation of microcrystalline cellulose synergism between different endoglucanases of <i>cellulomonas-sp atcc 21399</i> . <i>Biotech. Bioeng.</i> 39(1):121-23
	D4	Pugsley et al. (1993) The complete general secretory pathway in gram-negative bacteria. <i>Microbiol. Rev.</i> 57(1):50-108
	D5	Pugsley et al. (1997) Recent progress and future directions in studies of the main terminal branch of the general secretory pathway in Gram-negative bacteria--a review. <i>Gene</i> 192: 13-19
	D6	Riedel, K. et al. (1997) Synergistic interaction of the <i>Clostridium stercorarium</i> cellulases avicelase I (CelZ) and avicelase II (CelY) in the degradation of microcrystalline cellulose. <i>FEMS Microbiol. Lett.</i> 147:239-243
	D7	Saito et al. (1990) Expression of a thermostable cellulase gene from a thermophilic anaerobe in <i>Saccharomyces cerevisiae</i> . <i>J. Ferment. Bioeng.</i> 69:282-286
	D8	Sheehan, J., (1994) Bioconversion for production of renewable transportation fuels in the United States. <i>Amer. Chem. Soc. pp</i> 1-52
	D9	Su et al. (1993) Simultaneous expression of genes encoding endoglucanase and $\beta$ -glucosidase in <i>Zymomonas mobilis</i> . <i>Biotechnol. Lett.</i> 15:979-984
	D10	Tomme, et al. (1995) Cellulose hydrolysis by bacteria and fungi. <i>Adv. Microb. Physiol.</i> 37:1-81
	D11	Wood et al. (1988) Methods for measuring cellulase activities. <i>Methods in Enzymology</i> 160:87-112
	D12	Wood, et al. (1992) Ethanol production from cellobiose, amorphous cellulose, and crystalline cellulose by recombinant <i>Klebsiella oxytoca</i> containing chromosomally integrated <i>Zymomonas mobilis</i> genes for ethanol production and plasmids expressing thermostable cellulase genes from <i>Clostridium thermocellum</i> . <i>Appl. Environ. Microbiol.</i> 58(7):2103-10
	D13	Wood et al. (1997) Production of recombinant bacterial endoglucanase as a co-product with ethanol during fermentation using derivatives of <i>Escherichia coli</i> KO11. <i>Biotech. Bioeng.</i> 55:547-555
	D14	Woodward, J. (1991) Synergism in cellulase systems. <i>Bioresource Technol.</i> 36:67-75
	D15	Wyman, C.E. et al. (1995) Economic fundamentals of ethanol production from lignocellulosic biomass. <i>Amer. Chem. Soc. Symp.</i> 618:272-290
	D16	Yomano et al. (1998) Isolation and characterization of ethanol-tolerant mutants of <i>Escherichia coli</i> KO11 for fuel ethanol production. <i>J. Ind. Microbiol. Biotechnol.</i> 20(2):132-8
<i>mm</i>	D17	Zhou, S. et al. (1999) Enhancement of expression and apparent secretion of <i>Erwinia chrysanthemi</i> endoglucanase (encoded by <i>celZ</i> ) in <i>Escherichia coli</i> B. B. <i>Appl. Environ. Microbiol.</i> 65:2439-2445

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